



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076

Purchase Requisition No. 1000012053 (SRM/RFX No. 6100000188)

Electrochemical Microfabrication laboratory, Department of Mechanical Engineering, IIT Bombay is interested in purchasing a high speed camera for experimental analysis of gas bubble formation.

The technical specifications of the High Speed Camera:

No.	Parameter	Technical specification
1	Resolution	1 MP or better.
2	Sensor	CMOS Monochrome, Square pixel size of $\geq 20\mu\text{m}$.
3	Frame rate	$\geq 3,000$ fps at 1 Mega pixels
4	Mounting	Both F and C mount
5	Record duration	3,000 frames per second and 1 MP resolution 10,000 fps and 512 x 512 resolution
6	Shutter Speed	$\leq 1\mu\text{s}$ independent of frame rate
7	Dynamic Range	12-bit Monochrome or better
8	Region of interest	Selectable in steps of $\sim 64 \times 8$
9	Trigger Modes	Start, end, center, manual mandatory. Mention other record options if available.
10	Operating temperature	0 to 50 Degree C
11	Weight	≤ 2 KG
12	Light	7700 Lumens white Flicker Free Led light
13	Software	For camera control, Post processing
14	Demonstration	Demonstration of same camera during technical evaluation if asked for
15	Prior supply	Similar camera should have supplied in one of the IITs/NIT/ government funded research organization
16	Technical support	Availbale when required
17	Other accessories	Should also provided other required accessories (LED lamp)